



<u>L3</u>	tat near10 (fused or fusion\$ or substitut\$)	1211	<u>L3</u>
<u>L2</u>	tat near10 (fused or fusion\$ or substitut\$) near10 Tax	1	<u>L2</u>
<u>L1</u>	tat near10 (fused or fusion\$ or substitut\$) Tax	28068	<u>L1</u>

END OF SEARCH HISTORY

 PALM INTRANETDay : Friday  
Date: 10/27/2006

Time: 15:31:26

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Enter the **first few letters** of the Inventor's Last Name.  
Additionally, enter the **first few letters** of the Inventor's First name.

**Last Name****First Name**

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# PALM INTRANET

Day : Friday  
Date: 10/27/2006

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Set	Items	Description
? set hi ;set hi		
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HIGHLIGHT	set on as ''	
? begin	5,6,55,154,155,156,312,399,biotech,biosci	
>>>	44	is unauthorized

Set Items Description  
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? s induc? (5n) retrovir? (5n) promoter?  
Processing  
Processed 10 of 41 files ...  
Processing  
Completed processing all files  
14170972 INDUC?  
697262 RETROVIR?  
1321776 PROMOTER?  
S1 296 INDUC? (5N) RETROVIR? (5N) PROMOTER?  
? s s1 and tax  
296 S1  
90442 TAX  
S2 6 S1 AND TAX  
? s s2 and tat  
6 S2  
72043 TAT  
S3 3 S2 AND TAT  
? s s1 and (WPRE or woodchuck)  
296 S1  
574 WPRE  
7826 WOODCHUCK  
S4 2 S1 AND (WPRE OR WOODCHUCK)  
? s s4/3/1-2  
>>>Invalid syntax  
? d s4/3/1-2  
Display 4/3/1 (Item 1 from file: 399)  
DIALOG(R)File 399:CA SEARCH(R)  
(c) 2006 American Chemical Society. All rts. reserv.

142192342 CA: 142(11)192342h PATENT  
Inducible mammalian protein expression system comprising a retroviral  
promoter and a promoter-activating protein  
INVENTOR(AUTHOR): Harms, Jerome S.; Splitter, Gary A.; Eakle, Kurt A.;  
Bremel, Robert D.  
LOCATION: USA  
PATENT: U.S. Pat. Appl. Publ. ; US 20050026288 A1 DATE: 20050203  
APPLICATION: US 2004763976 (20040123) \*US 2003PV442103 (20030123)  
PAGES: 117 pp. CODEN: USXXCO LANGUAGE: English  
PATENT CLASSIFICATIONS:  
CLASS: 435456000; C12N-015/86A

- end of record -

?  
Display 4/3/2 (Item 1 from file: 357)  
DIALOG(R)File 357:Derwent Biotech Res.  
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0362159 DBR Accession No.: 2005-07863 PATENT  
New inducible gene expression system comprising a first vector  
comprising at least one retroviral promoter, at least one  
factor inducing the retroviral promoter, and at least  
one gene product, useful for expressing genes and proteins - plasmid,  
cosmid or virus vector-mediated retro virus promoter gene transfer and  
expression in host cell for protein and gene expression and gene  
therapy  
AUTHOR: HARMS J S; SPLITTER G A; EAKLE K A; BREMEL R D  
PATENT ASSIGNEE: HARMS J S; SPLITTER G A; EAKLE K A; BREMEL R D 2005  
PATENT NUMBER: US 20050026288 PATENT DATE: 20050203 WPI ACCESSION NO.:  
2005-141386 (200515)  
PRIORITY APPLIC. NO.: US 763976 APPLIC. DATE: 20040123  
NATIONAL APPLIC. NO.: US 763976 APPLIC. DATE: 20040123

LANGUAGE: English

- end of record -

? s Tax (5n) (fused or fusion or fusions) (5n) tat  
90442 TAX  
375242 FUSED  
1350350 FUSION  
80283 FUSIONS  
72043 TAT  
S5 13 TAX (5N) (FUSED OR FUSION OR FUSIONS) (5N) TAT  
? rd s5

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S6 4 RD S5 (unique items)

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Display 6/3/1 (Item 1 from file: 5)  
DIALOG(R)File 5:Biosis Previews(R)  
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0012499960 BIOSIS NO.: 200000218273

Human T-cell leukemia virus type 1 Tax shuttles between functionally discrete subcellular targets

AUTHOR: Burton Molly; Upadhyaya Cherrag D; Maier Bernhard; Hope Thomas J; Semmes O John (Reprint)

AUTHOR ADDRESS: Department of Microbiology, University of Virginia School of Medicine, Jordan Hall 7-89, Charlottesville, VA, 23060, USA\*\*USA

JOURNAL: Journal of Virology 74 (5): p2351-2364 March, 2000 2000

MEDIUM: print

ISSN: 0022-538X

DOCUMENT TYPE: Article

RECORD TYPE: Abstract

LANGUAGE: English

- end of record -

?  
Display 6/3/2 (Item 1 from file: 154)  
DIALOG(R)File 154:MEDLINE(R)  
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10597877 PMID: 7474143

Selective infection of human T-lymphotropic virus type 1 (HTLV-1)-infected cells by chimeric human immunodeficiency viruses containing HTLV-1 tax response elements in the long terminal repeat.

Lin H C; Bodkin M; Lal R B; Rabson A B

Department of Molecular Genetics and Microbiology, Robert Wood Johnson Medical School, University of Medicine and Dentistry of New Jersey, Piscataway, USA.

Journal of virology (UNITED STATES) Nov 1995, 69 (11) p7216-25,  
ISSN 0022-538X--Print Journal Code: 0113724

Contract/Grant No.: AI30901; AI; NIAID

Publishing Model Print

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

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Display 6/3/3 (Item 1 from file: 399)  
DIALOG(R)File 399:CA SEARCH(R)  
(c) 2006 American Chemical Society. All rts. reserv.

142192342 CA: 142(11)192342h PATENT  
Inducible mammalian protein expression system comprising a retroviral promoter and a promoter-activating protein  
INVENTOR(AUTHOR): Harms, Jerome S.; Splitter, Gary A.; Eakle, Kurt A.; Bremel, Robert D.  
LOCATION: USA  
PATENT: U.S. Pat. Appl. Publ. ; US 20050026288 A1 DATE: 20050203  
APPLICATION: US 2004763976 (20040123) \*US 2003PV442103 (20030123)  
PAGES: 117 pp. CODEN: USXXCO LANGUAGE: English  
PATENT CLASSIFICATIONS:  
CLASS: 435456000; C12N-015/86A

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?  
Display 6/3/4 (Item 1 from file: 357)  
DIALOG(R)File 357:Derwent Biotech Res.  
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0362159 DBR Accession No.: 2005-07863 PATENT  
New inducible gene expression system comprising a first vector comprising at least one retroviral promoter, at least one factor inducing the retroviral promoter, and at least one gene product, useful for expressing genes and proteins - plasmid, cosmid or virus vector-mediated retro virus promoter gene transfer and expression in host cell for protein and gene expression and gene therapy  
AUTHOR: HARMS J S; SPLITTER G A; EAKLE K A; BREMEL R D  
PATENT ASSIGNEE: HARMS J S; SPLITTER G A; EAKLE K A; BREMEL R D 2005  
PATENT NUMBER: US 20050026288 PATENT DATE: 20050203 WPI ACCESSION NO.: 2005-141386 (200515)  
PRIORITY APPLIC. NO.: US 763976 APPLIC. DATE: 20040123  
NATIONAL APPLIC. NO.: US 763976 APPLIC. DATE: 20040123  
LANGUAGE: English

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? d s6/9/1-2  
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DIALOG(R)File 5:Biosis Previews(R)  
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0012499960 BIOSIS NO.: 200000218273  
Human T-cell leukemia virus type 1 Tax shuttles between functionally discrete subcellular targets  
AUTHOR: Burton Molly; Upadhyaya Cherrag D; Maier Bernhard; Hope Thomas J; Semmes O John (Reprint)  
AUTHOR ADDRESS: Department of Microbiology, University of Virginia School of Medicine, Jordan Hall 7-89, Charlottesville, VA, 23060, USA\*\*USA  
JOURNAL: Journal of Virology 74 (5): p2351-2364 March, 2000 2000  
MEDIUM: print  
ISSN: 0022-538X  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English

ABSTRACT: Human T-cell leukemia virus type 1 (HTLV-1) Tax is a nuclear protein with striking pleiotropic functionality. We recently demonstrated

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that Tax localizes to a multicomponent nuclear speckled structure (Tax speckled structure (TSS)). Here, we examine these structures further and

identify a partial overlap of TSS with transcription hot spots. We used a strategy of directed expression via fusion proteins to determine if these transcription sites are the subtargets within TSS required for Tax function. When \*\*\*fused\*\*\* to human immunodeficiency virus type 1 (HIV-1) Tat, the resulting Tat-Tax fusion protein displayed neither a Tat-like nor a Tax-like pattern but rather was targeted specifically to the transcription subsites. The Tat-Tax fusion was able to activate both the HIV-1 long terminal repeat (LTR) and the HTLV-1 LTR at the same level as the individual component; thus, targeting proteins to transcription hot spots was compatible with both \*\*\*Tax\*\*\* and \*\*\*Tat\*\*\* transcription function. In contrast, the fusion with HIV-1 Rev, Rev-Tax, resulted in a pattern of expression that was largely Rev-like (nucleolar and cytoplasmic). The reduced localization of Rev-Tax to transcription sites was reflected in a 10-fold drop in activation of the HTLV-1 LTR. However,

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there was no loss in the ability of Tax to activate via NF-kappaB. Thus, NF-kappaB-dependent Tax function does not require targeting of Tax to these transcription sites and suggests that activation via NF-kappaB is a cytoplasmic function. Selective mutation of the nuclear localization signal site in the Rev portion resulted in retargeting of Rev-Tax to TSS and subsequent restoration of transcription function, demonstrating that inappropriate localization preceded loss of function. Mutation of the nuclear export signal site in the Rev portion had no effect on transcription, although the relative amount of Rev-Tax in the cytoplasm was reduced. Finally, in explaining how Tax can occupy multiple subcellular sites, we show that Tax shuttles from the nucleus to the cytoplasm in a heterokaryon fusion assay. Thus, pleiotropic functionality by Tax is regulatable via shuttling between discrete subcellular compartments.

DESCRIPTORS:

MAJOR CONCEPTS: Molecular Genetics--Biochemistry and Molecular Biophysics

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; Infection

BIOSYSTEMATIC NAMES: Hominidae--Primates, Mammalia, Vertebrata, Chordata, Animalia; Retroviridae--DNA and RNA Reverse Transcribing Viruses, Viruses, Microorganisms

ORGANISMS: HeLa cell line (Hominidae); human T-cell leukemia virus type 1 (Retroviridae)

ORGANISMS: PARTS ETC: cytoplasm; nucleolus

COMMON TAXONOMIC TERMS: Animals; Chordates; Humans; Mammals; Primates; Vertebrates; DNA and RNA Reverse Transcribing Viruses; Microorganisms; Viruses

CHEMICALS & BIOCHEMICALS: Tax proteins; fusion proteins

MISCELLANEOUS TERMS: pleiotropy; subcellular compartments; transcription; transcription hot spots; transcription subsites

CONCEPT CODES:

33506 Virology - Animal host viruses

02508 Cytology - Human

10064 Biochemistry studies - Proteins, peptides and amino acids

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10506 Biophysics - Molecular properties and macromolecules  
10508 Biophysics - Membrane phenomena  
11108 Anatomy and Histology - Microscopic and ultramicroscopic anatomy  
36006 Medical and clinical microbiology - Virology  
12502 Pathology - General  
13012 Metabolism - Proteins, peptides and amino acids  
31500 Genetics of bacteria and viruses  
32000 Microbiological apparatus, methods and media  
BIOSYSTEMATIC CODES:  
86215 Hominidae  
03305 Retroviridae

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Display 6/9/2 (Item 1 from file: 154)  
DIALOG(R)File 154:MEDLINE(R)  
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10597877 PMID: 7474143  
Selective infection of human T-lymphotropic virus type 1 (HTLV-1)-infected cells by chimeric human immunodeficiency viruses containing HTLV-1 tax response elements in the long terminal repeat.  
Lin H C; Bodkin M; Lal R B; Rabson A B  
Department of Molecular Genetics and Microbiology, Robert Wood Johnson Medical School, University of Medicine and Dentistry of New Jersey, Piscataway, USA.  
Journal of virology (UNITED STATES) Nov 1995, 69 (11) p7216-25,  
ISSN 0022-538X--Print Journal Code: 0113724  
Contract/Grant Number: AI30901; AI; NIAID  
Publishing Model Print  
Document type: Journal Article  
Languages: ENGLISH  
Main Citation Owner: NLM  
Record type: MEDLINE; Completed

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DIALOG(R)File 154:MEDLINE(R)  
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Subfile: INDEX MEDICUS; AIDS/HIV; Toxbib  
Previous studies have suggested that the human immunodeficiency virus long terminal repeat (HIV LTR) enhancer/promoter sequences contribute to the replication ability of HIV in different T-cell lines; mutation of these sequences can alter HIV tropism. We have utilized site-specific mutagenesis to generate variants of HIV that exhibit specific tropism for human T-lymphotropic virus type 1 (HTLV-1) Tax-expressing CD4+ T cells. The wild-type HIV LTR NF-kappa B and Sp1 sites in an infectious molecular clone of HIV type 1 were replaced with sequences derived from the 21-bp Tax response elements (TRE) from the HTLV-1 LTR to generate TRE-containing chimeric HIVs (TRE-HIVs). The TRE-HIVs exhibit selective replication and cell killing in HTLV-infected human CD4+ T cells, but not in HTLV-negative T cells. Transient transfections suggested that Tax-TRE interactions could account for the observed replication specificity. The TRE-containing HIV LTRs were synergistically activated by the HIV Tat and HTLV-1 Tax transactivators. These results demonstrate that it is possible to specifically target HIV replication and cytotoxicity to HTLV-1+, CD4+ human

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DIALOG(R) File 154: MEDLINE(R)

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T cells, on the basis of Tax-TRE interactions, and provide a model for the development of specific, cytotoxic, retroviral gene therapy vectors for HTLV-1-infected cells based on alterations of the LTR transcriptional regulatory elements. They also suggest that HIV Tat can cooperate with heterologous transcriptional activators, such as Tax, which act through upstream binding sites without directly binding to DNA.

Descriptors: \*Gene Products, tat--metabolism--ME; \*Gene Products, tax --metabolism--ME; \*HIV--physiology--PH; \*HIV Long Terminal Repeat; \*Human T-lymphotropic virus 1--genetics--GE; \*Human T-lymphotropic virus 1 --physiology--PH; \*Regulatory Sequences, Nucleic Acid; \*Repetitive Sequences, Nucleic Acid; \*Virus Replication; Base Sequence; CD4-Positive T-Lymphocytes; Cell Line; Cell Survival; Chimera; Chloramphenicol O-Acetyltransferase--biosynthesis--BI; Gene Products, tat--biosynthesis--BI ; Gene Products, tax--biosynthesis--BI; Gene Products, tax--genetics--GE; HIV--genetics--GE; Humans; Kinetics; Molecular Sequence Data; Plasmids; Recombinant Fusion Proteins--biosynthesis--BI; Research Support, Non-U.S. Gov't; Research Support, U.S. Gov't, P.H.S.; Restriction Mapping;

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DIALOG(R) File 154: MEDLINE(R)

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Transfection

CAS Registry Number: 0 (Gene Products, tat); 0 (Gene Products, tax); 0 (Plasmids); 0 (Recombinant Fusion Proteins)

Enzyme Number: EC 2.3.1.28 (Chloramphenicol O-Acetyltransferase)

Record Date Created: 19951201

Record Date Completed: 19951201

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? s s1 and pseudotyp?

296 S1

13362 PSEUDOTYP?

S7 19 S1 AND PSEUDOTYP?

? s s7 and tax

19 S7

90442 TAX

S8 0 S7 AND TAX

? s s1 and RNA (n) export?

296 S1

3941311 RNA

260647 EXPORT?

3371 RNA(N) EXPORT?

S9 4 S1 AND RNA (N) EXPORT?

? e au=harms, jerome

Ref	Items	Index-term
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E2	1	AU=HARMS, JEFFREY D.
E3	2	*AU=HARMS, JEROME
E4	4	AU=HARMS, JEROME S
E5	18	AU=HARMS, JEROME S.
E6	2	AU=HARMS, JEROME SCOTT
E7	2	AU=HARMS, JF
E8	1	AU=HARMS, JL
E9	1	AU=HARMS, JM
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E6	6	AU=HARMS JJ
E7	1	AU=HARMS JK
E8	5	AU=HARMS JL
E9	13	AU=HARMS JM
E10	2	AU=HARMS JOCHEN
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E12	23	AU=HARMS JOERG M

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E3	12	*AU=SPLITTER, GARY
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E5	88	AU=SPLITTER, GARY A.
E6	1	AU=SPLITTER, GARY ALLEN
E7	3	AU=SPLITTER, J. L.
E8	25	AU=SPLITTER, J. S.
E9	1	AU=SPLITTER, JACKIE LEE GOMER
E10	1	AU=SPLITTER, JANET L.
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E6	2	AU=SPLITTER H
E7	1	AU=SPLITTER H W
E8	5	AU=SPLITTER J L
E9	4	AU=SPLITTER J S
E10	1	AU=SPLITTER J.L..
E11	2	AU=SPLITTER JL
E12	2	AU=SPLITTER JS

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? e au=eakle, kurt

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E6	1	AU=EAKLE, N
E7	2	AU=EAKLE, N.
E8	2	AU=EAKLE, NORA
E9	4	AU=EAKLE, R. F.
E10	1	AU=EAKLE, RF

E11 1 AU=EAKLE, SUSAN D.  
E12 1 AU=EAKLE, T. W

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E9	2	AU=EAKLE S.D.
E10	2	AU=EAKLE SD
E11	4	AU=EAKLE STEPHAN
E12	6	AU=EAKLE T W

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Ref	Items	Index-term
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E3	3	*AU=BREMEL, ROBERT
E4	10	AU=BREMEL, ROBERT D
E5	69	AU=BREMEL, ROBERT D.
E6	2	AU=BREMEL, ROBERT DUANE
E7	1	AU=BREMELL D
E8	2	AU=BREMELL D.
E9	5	AU=BREMELL DANIEL
E10	152	AU=BREMELL T
E11	56	AU=BREMELL T.
E12	2	AU=BREMELL THOMAS

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? e au=bremel robert

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E4	41	AU=BREMEL ROBERT D
E5	1	AU=BREMEL, D.
E6	15	AU=BREMEL, D. H.
E7	1	AU=BREMEL, D. R.
E8	1	AU=BREMEL, DAVID H
E9	2	AU=BREMEL, DAVID HERBERT
E10	1	AU=BREMEL, R
E11	87	AU=BREMEL, R. D.
E12	1	AU=BREMEL, R.-D.

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